

Client: Instant Peptides

Certified: 06/20/2026

This Certificate of Analysis certifies that the sample listed herein was tested by Kovera Labs using validated analytical methods and was found to meet the stated specifications at the time of analysis.

SAMPLE INFORMATION

Product	SS-31	Form	Lyophilized powder
Batch	2026-0292-E	Labeled Qty	10 mg
Mol. Formula	C32H49N9O5	CAS Number	736992-21-5
Cap Color	Black	Crimp Color	Silver

TEST RESULTS

	REFERENCE STANDARD	RESULT
Batch Avg Purity	(>98%)	99.649%
Batch Avg Net Content	(~10mg)	13.68 mg
Identity Confirmation (LC-MS)	(SS-31)	SS-31
Endotoxin Safety Screen	(≤0.5 EU/mL)	PASS
Fentanyl Presence Analysis	(Not Detected)	Not Detected
14 Day Sterility Screening	(No Growth)	No Growth

HEAVY METAL SCREENING

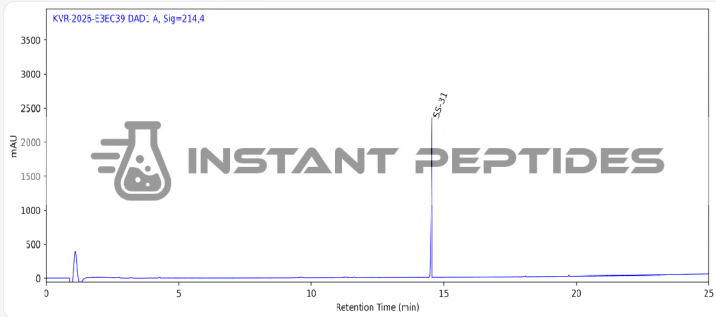
Analyte	Result	Status
Arsenic (As)	Negative	
Cadmium (Cd)	Negative	
Lead (Pb)	Negative	
Mercury (Hg)	Negative	

BATCH CONFORMITY RESULTS

Vial	Purity (%)	Net Content (mg)
Vial 1	99.791	13.68
Vial 2	99.489	13.47
Vial 3	99.666	13.89
Batch Average	99.649%	13.68 mg

CHROMATOGRAM

Method: RP-HPLC | Column: C18 | Detection: DAD @ 214 nm



CLIENT & SAMPLE INFORMATION

Client	Instant Peptides	Analysis Date	05/26/2026
Product Name	SS-31	Strength	10 mg
Lot / Batch	2026-0292-E	Condition	Lyophilized

This Certificate of Analysis certifies that the sample listed herein was tested for bacterial endotoxin using a kinetic chromogenic LAL assay in accordance with USP <85> Bacterial Endotoxins Test.

TEST METHODOLOGY

Test Performed	Quantitative Bacterial Endotoxin Test	Compendial Ref	USP <85>
Assay Type	Kinetic Turbidimetric	Detection λ	660 nm
Detection Range	0.01 - 1.0 EU/mL	Endotoxin Std	E. coli O111:B4
Dilution Vol	2.0 mL	Matrix	LAL Reagent Water

QUANTITATIVE RESULTS

Parameter	Result
Endotoxin Level	< 0.20 EU/mL
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	N/A
Spike CV (%)	N/A
Spike Recovery (%)	N/A
Final Determination	PASS

CONTROLS

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	Pass
Negative Control	No signal	As expected	Pass

INTERPRETATION

Endotoxin content was quantitatively determined using a kinetic chromogenic LAL assay in accordance with USP <85>. Result reported as below quantitation threshold. The measured endotoxin level meets the specified acceptance criteria. The sample passes the endotoxin limit test.

AUTHORIZATION

REVIEWED BY
Lemar Arghandiwal
Lab Director



CLIENT & SAMPLE INFORMATION

Client	Instant Peptides	Analysis Date	May 27, 2026
Product Name	SS-31	Strength	10 mg
Lot / Batch	2026-0292-E	Condition	Lyophilized

ICP-MS metals analysis performed using EPA-referenced methods; results evaluated against internal acceptance criteria.

TEST METHODOLOGY

Test Performed	Elemental Impurities Analysis	Instrument	ICP-MS
Sample Prep	HNO ₃ / H ₂ O ₂ matrix	Calibration	Multi-element standard curve
Internal Std	Sc, Ge, In, Bi	Material Type	Raw Material (Research Use)

ELEMENTAL IMPURITIES RESULTS

Element	Result (ppm)	Acceptance Limit (ppm)	Status
<div>Pb</div> Lead	< 0.5	≤ 10	PASS
<div>As</div> Arsenic	< 0.15	≤ 1.5	PASS
<div>Cd</div> Cadmium	< 0.05	≤ 0.5	PASS
<div>Hg</div> Mercury	< 0.3	≤ 3	PASS

METHOD SUITABILITY (SPIKE RECOVERY)

Element	Spike Level	Recovery	Criteria
<div>Pb</div> Lead	5 ppm	98%	70–150%
<div>As</div> Arsenic	0.75 ppm	102%	70–150%
<div>Cd</div> Cadmium	0.25 ppm	95%	70–150%
<div>Hg</div> Mercury	1.5 ppm	91%	70–150%

Spike recovery confirms method suitability for the sample matrix.

INTERPRETATION

Elemental impurities were determined using ICP-MS with EPA-referenced analytical methods. All tested elements (Pb, As, Cd, Hg) are below the stated acceptance limits. Spike recovery values fall within acceptable ranges, confirming method suitability. The sample meets the stated acceptance criteria for elemental impurities.

QUALITY CONTROL

Method Blank: Pass CCV: Pass Duplicate RPD: < 20%

AUTHORIZATION

REVIEWED BY
Lemar Arghandiwal
Lab Director



CLIENT & SAMPLE INFORMATION

Client	Instant Peptides	Analysis Date	05/26/2026
Product Name	SS-31	Strength	10mg
Lot / Batch	2026-0292-E	Condition as Received	Sealed injectable vial

This report summarizes microbial growth screening performed on the submitted sample using the BacT ALERT automated microbial detection system. The test is designed to screen for detectable microbial growth under the conditions of the method used. This report applies only to the submitted sample as tested and does not certify sterility of the entire batch lot or product line.

TEST METHODOLOGY

Test Performed	14 Day Microbial Growth Screening
Culture System	Aerobic and anaerobic culture bottles
Incubation Period	14 days
Detection Principle	Colorimetric CO ₂ detection
Sample Requirement	1 vial (destructive)

TEST RESULTS

Parameter	Result
Aerobic microbial growth	No Growth
Anaerobic microbial growth	No growth detected
Final Determination	No microbial growth detected during the 14 day incubation period

METHOD OVERVIEW

The submitted sample was aseptically introduced into BacT ALERT culture bottles designed to support microbial growth detection. The BacT ALERT system continuously monitors each bottle during incubation. If microorganisms are present and grow, they may produce carbon dioxide (CO₂) which interacts with the colorimetric sensor in the bottle; the instrument detects this change photometrically. If growth is detected, the system automatically flags the bottle as positive and records the time to detection. If no growth is detected during the full incubation period, the final result is reported as no microbial growth detected.

INTERPRETATION

No microbial growth was detected in the submitted sample during the 14 day BacT ALERT incubation period. This result indicates that no detectable microbial growth was observed under the conditions of this screening method. This result should not be interpreted as a guarantee of sterility for the entire batch lot or product line.

